PATENT ABSTRACTS OF JAPAN

(11)Publication number:

(43)Date of publication of application: 12.06.1985 60-107017

(51)Int.CI.

G02B 26/10

(21)Application number : **58-213927**

16.11.1983

(22)Date of filing:

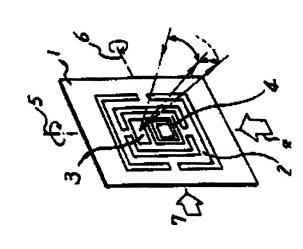
(71)Applicant: HITACHI LTD

(72)Inventor: TANABE MASANORI KAWAKAMI HIROJI SHIMADA SATOSHI YAMADA KAZUJI

(54) OPTICAL DEFLECTING ELEMENT

(57)Abstract:

gimbals spring 2 by metal vapor deposition or plating. The constant current independently. The galvano mirror 3 and thin film coil 4 are formed on the CONSTITUTION: A substrate 1 made of Si single crystal is worked into the gimbals spring by photoengraving. The gimbals spring 2 rotates and controlling the application of magnetic fields in two X and Y directions surface of the center movable part of the substrate 1 supported with the PURPOSE: To make a two-dimensional deflection scan through one is supplied to the thin film coil 4 to vary a magnetic field 7 in the X oscillates about an X-directional axis 5 and an Y-directional axis 6 element by supporting a galvano mirror with a gimbals spring, and while flowing a current to the thin film coil on a mirror surface.



element rotates and oscillates about the axes 5 and 6 independently of each other with electromagnetic direction and a magnetic field 8 in the Y direction independently of each other, and consequently the force, so that reflected light from the mirror 3 is deflected in two dimensions.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2000 Japan Patent Office